



# Green Power Initiatives

November 29, 2005

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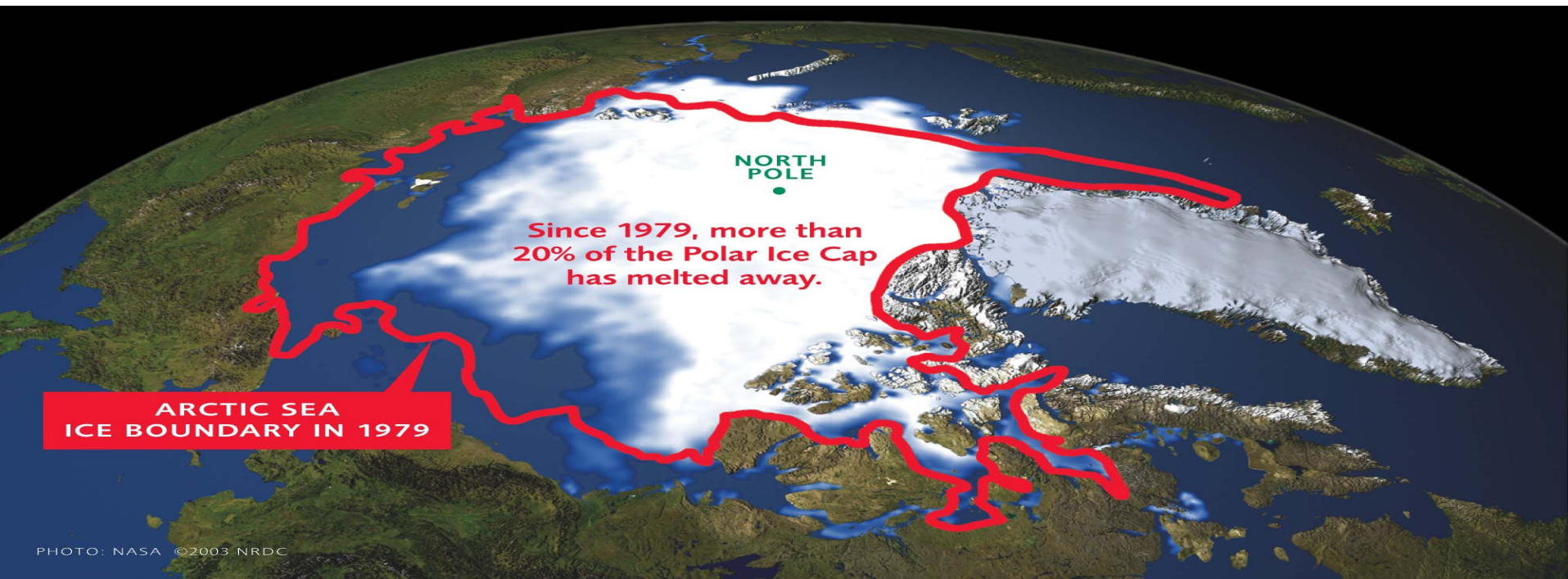
**Worldwide Energy Management**

**Johnson & Johnson**

## Agenda:

- Johnson & Johnson on Climate Change
- Renewable Energy Projects
- Renewable Energy Purchases

Climate Change: human activity that alters the composition of the global atmosphere and that is in addition to natural climate variability



- CO<sub>2</sub> accounts for about 80% of warming potential
- CO<sub>2</sub> primarily generated from burning of fossil fuels
- CO<sub>2</sub> accounts for 99+% of J&J Greenhouse gas emission

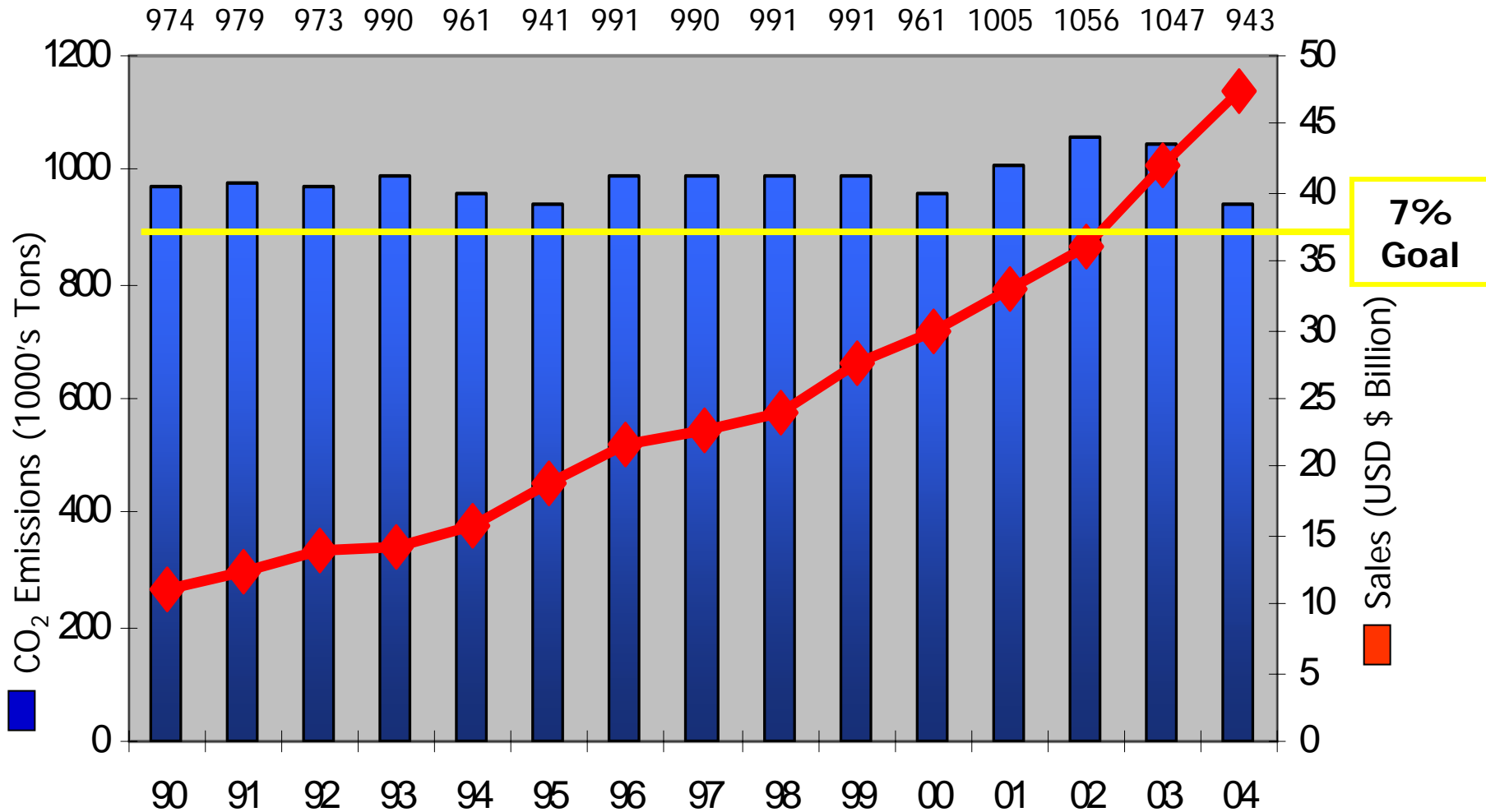
# Climate Friendly Energy Policy

## July 2003

Achieve a 7% absolute reduction in  
Green House Gas (CO<sub>2</sub>) emissions by 2010,  
compared to a base year of 1990

1990 → 2004 ACTUAL: -3.1%  
2010 GOAL: -7%

*Johnson & Johnson*






# CO<sub>2</sub> Reduction Pathway

- Energy Efficiency (~15-30% IRR)
- On-site Cogeneration (~15-20 % IRR)
- On-Site Renewables: Solar/Wind (~10-15% IRR)
- Green Power Purchases (expense)
- Carbon Offset Trading & Sequestration (expense)

## ***Commitment to Driving Climate Friendly Projects***

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### **Group Finance CO<sub>2</sub> Capital Funding Process** August, 2004

- \$100 million over 3 years in capital relief
  - Good financial returns: 10-15%+ IRR
  - Meaningful CO<sub>2</sub> reduction
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## ALZA Landfill Gas



Mountain View, CA  
3 x 1 MW IC Generators





## Completed Solar Photo Voltaic (PV) Projects

PSGA – Othro McNiel Pharm	Springhouse, PA	75 kW
Neutrogena	Los Angeles, CA	546 kW
Cordis Corporation	Warren, NJ	72 kW
J&J Consumer Products	Skillman, NJ	500 kW
Janssen Pharmaceuticals	Titusville, NJ	500 kW
Total		1.7 MW

## Planned Solar Photo Voltaic (PV) Projects

J&J Headquarters	New Brunswick, NJ	243 kW
Ethicon	Somerville, NJ	250 kW
Total Solar PV Portfolio		2.2 MW

## J&J Consumer Products – Skillman, NJ 500kW PowerTracker



## Green Power & Renewable Energy Credits

- Green Power – Incorporate into Electric Supplier Agreements (15%+)
- Renewable Energy Credits – Bid through World Resources Institute
  - Turn \$ / MWH into \$ / Metric Ton CO<sub>2</sub>
  - Currently purchasing Wind & Biomass

QUESTIONS?